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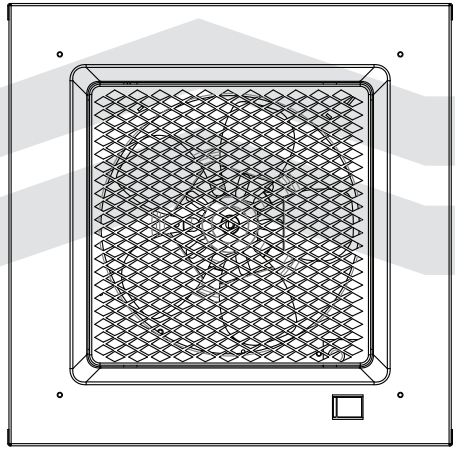

OWNER'S MANUAL

GARAGE CEILING HEATER

Technical Support: 1-866-206-0888

MODEL:PH-945

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MODEL:PH-945

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SAFETY GUIDELINES

WARNING!

PLEASE READ ALL INSTRUCTIONS BEFORE USING THIS HEATER

NOTE: There may be a trace of smoke or odour when the unit is first operated. Don't be alarmed. This indicates that a drop of oil fell on the heating coil during the manufacturing process. It will quickly evaporate and should not re-occur. Make sure that the room in which the appliance is located is well ventilated during this operation.
It is normal for the appliance to emit small cracking sounds when you turn it on for the first time. Do not be alarmed.

WHEN USING ELECTRICAL APPLIANCES, BASIC PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE RISK OF FIRE, ELECTRICAL SHOCK AND INJURY TO PERSONS OR PROPERTY, INCLUDING THE FOLLOWING:

1. Read all instructions before using this heater.
2. This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes and curtains at least 3' (0.9 m) from the front of the heater, and keep them away from the sides and rear too.
3. Extreme caution is necessary when any heater is used by or near children or invalids, and whenever the heater is left operating and unattended.
4. Do not operate any heater after the heater malfunctions, has been dropped or damaged in any manner. Disconnect power at the service panel and have the heater inspected by a reputable electrician before reusing.
5. Do not use outdoors.
6. To disconnect heater, turn off power to heater circuit at the main disconnect panel.
7. Do not install less than 8' (2.4 m) high from the floor and closer than 3' (0.9 m) from any vertical surfaces or walls.

8. Do not insert or allow foreign objects to enter any ventilation or exhaust opening, as this may cause an electric shock or fire, or damage the heater.

9 To prevent a possible fire, do not block air intakes or exhaust in any manner.

10. A heater has hot and arcing or sparking parts inside. To reduce the risk of fire, Do not use it in areas where gasoline, paint, or flammable vapors and liquids are used or stored.

11. Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.

12. WARNING – This heater requires hardwire installation (no plug). The installation of this product must be carried out by a Certified Electrician and in accordance with all local and national electrical codes.

13. WARNING – Risk of fire. Do not use as a residential or household heater.

14. For supply cables, use min. 10 AWG (5.3 mm^2) copper wires.

CAUTION!

High temperature. Risk of fire. Keep electrical cords, drapery, furnishings, and other combustibles at least 3' (0.9 m) from the front of the heater and away from the sides and rear.

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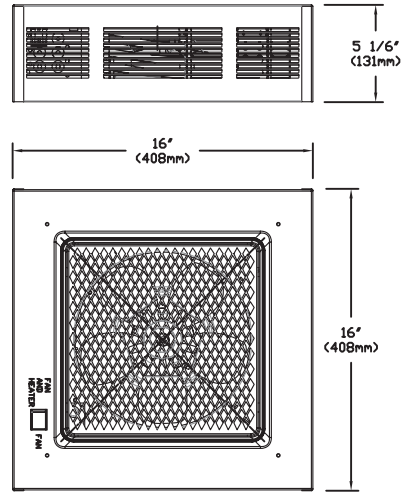
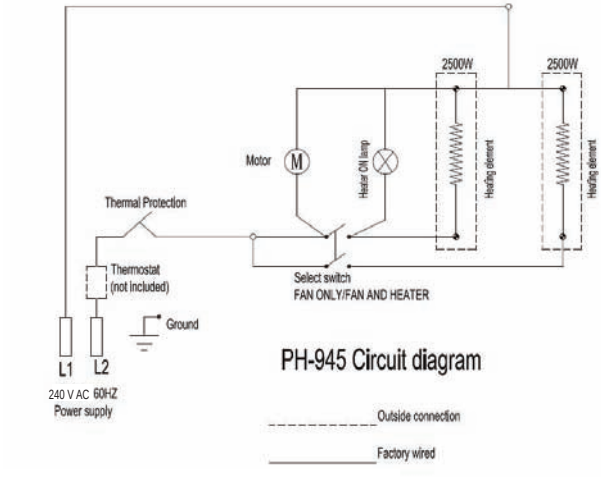
SPECIFICATIONS

Model: PH-945
Volt: 240 V
Watts: 5000 W
Frequency: 60 Hz
BTU/h: 17,060
Recommended Heating Capacity:
1.25 Watts / cubic foot (0.03m^3)



Temperature control. Thermostat is an option item.
It is not included with the heater.
To install a temperature control thermostat, consult a certified electrician.



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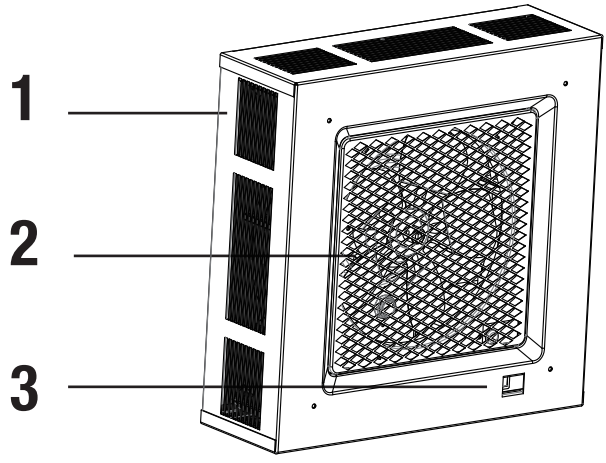
PARTS OF THE HEATER



NAME	PART#
Housing	1
Safety grille	2
Select switch: “Fan only” or “Fan and heater”	3

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BEFORE INSTALLATION

WARNING!

All wiring must be completed by a certified electrician.
The ceiling heater must be grounded in accordance with all national and local building codes.

All Wiring procedures and connections shall be in accordance with the national and local codes having jurisdiction.

Before installation

- Disconnect the main supply connection.
- Supply cables shall be 10 AWG (5.3 mm^2) copper wires.
- The heater must be connected to individual branch circuit protected by 30 Amp circuit breaker only.
- Supply cables must be equipped with a dual pole circuit breaker rating of at least 240 V 30 A/pole as main cutoff switch of power connection to the heater.

CAUTION!

High temperature. Risk of fire. Keep electrical cords, drapery, furnishings and other combustibles at least 3' (0.9 m) from the front of the heater and away from the sides and rear.

WARNING!

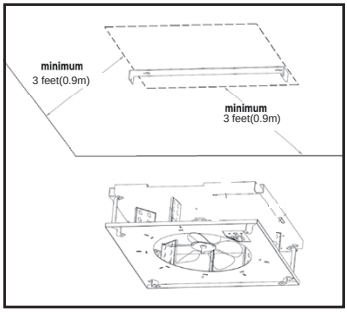
To reduce the risk of fire, do not store or use gasoline or other flammable vapors and liquids in the vicinity of the heater.

STEP 1

Loosen the four screws to remove the unit's housing.

Keep the unit at least 8' (2.4 m) away from the floor. This minimum distance must be maintained.

Do not install closer than 3' (0.9 m) from a vertical surface.



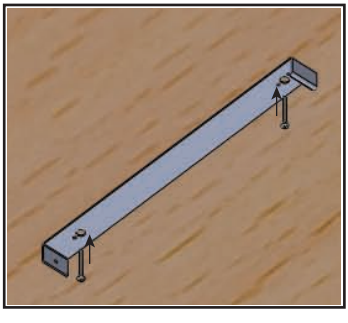
STEP 2

Mark the drill-hole positions in the ceiling for the mounting bracket.

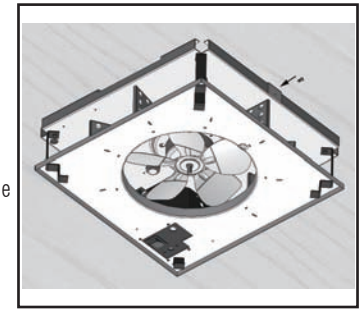
Drill the required holes with diameter fit for the anchor provided for positioning the mounting bracket.

Insert the anchors.

Attach the mounting bracket to the ceiling and secure with mounting screws.



STEP 3



Hook the unit to the mounting bracket and let the unit hang from the mounting bracket.
Run the electrical power supply cable in the flexible conduit and connect to the wiring compartment via the knock-out at back side of the unit.
Make the connections properly, with connectors that are suitable for the conductor size, including grounding wirings. After making the connections, arrange the pigtail leads of the unit and power supply wires in the wiring compartment. Secure the unit to the bracketwith screws.

STEP 4

Replace the housing and secure with screws.

WARNING!

The heater must be properly installed before it is used.

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH:

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E.
- A circuit breaker must be installed and serviced only by qualified electrical personnel.
- Always use a properly rated voltage sensing device to confirm power is off.

The Select switch on the heater is only for function selection. Use circuit breaker as power ON/OFF device. The circuit breaker is to be installed by certified electrican and shall be located in line of sight from the heater location or shall be capable of being locked in open position. Follow the operating instruction to reduce the risk of fire, electric shock, injury or death to persons.

- Switch on the circuit breaker to turn on the heater.
- When the select switch on the heater is at the FAN ONLY position, only the fan is on.
- Move the switch to FAN AND HEATER position. The heater will run in at 5000 W and lamp is light.
- **To turn off the heater, switch off the circuit breaker.The circuit breaker serves as the power disconnection means.**

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MAINTENANCE

There is no user maintenance part except regular cleaning as following description.
All other servicing or maintenance should be performed by qualified service personnel.

Before any cleaning, make sure that:

1. The power supply is disconnected at the source and the circuit breaker is switched off.
2. Wait for 60 minutes to ensure the heater to cool down, and your heater is now ready for cleaning.

Regular Cleaning:

1. Do not use cleaning liquid or other chemicals to spray on the unit.
2. Interior dust can often be removed by using a vacuum cleaner with a crevice tool attachment.
3. To clean enclosure, use a clean, soft and damp cloth to gently wipe off the dirt from the surface of the unit. Be sure not to wet the heating element and the switches. Allow the unit to dry completely before using it.

CAUTION!

DO NOT ALLOW WATER TO RUN INTO THE INTERIOR OF THE HEATER AS THIS COULD CREATE A FIRE OR ELECTRIC SHOCK HAZARD, DAMAGING THE UNIT.

TROUBLESHOOTING

WARNING!

If your heater fails to operate, please follow these procedures:

This heater is intended to be a ceiling-mounted heater. It has a thermal cut-off protection. If the thermal cut-off protection trips, **switch off the power. Switch off the circuit breaker**. The unit should reset automatically after 10 minutes. If the thermal cut-off protection trips again, consult a certified electrician to determine the reason for overheating.

Problem	Probable Cause	Solution
Unit is not heating.	Overheat protection has temporarily deactivated the heater.	Turn the heater OFF. **Switch off the circuit breaker**. Wait 10 minutes before turning on the heater.
	Room temperature has been warmed up to thermostat setting.	To increase the room temperature, adjust thermostat control knob to a higher setting.
	Breaker/fuse has been tripped.	Check your electrical box to confirm the breaker has not been blown. This may occur if the receptacle is shared between other high-consumption appliances.
The heater is producing a burning smell.	Ensure there are no combustible materials within 3' (0.9 m) of the heater.	Remove any combustible items from near the heater.
	A drop of oil fell on the heating coil during the manufacturing process. It will quickly evaporate and should not occur again.	Ensure room in which heater is situated is well ventilated.
	Ensure a minimum clearance of 3' (0.9 m) from both sides and rear of heater to adjacent walls.	Reposition the heater so there is enough space around the heater to the adjacent walls.

PLEASE DO NOT ATTEMPT TO OPEN OR REPAIR THE HEATER YOURSELF. DOING SO COULD CAUSE DAMAGE OR PERSONAL INJURY.